PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION Conferen	DCT/IDE A IAL 6					
BP110549/TN	FOR FURTHER ACTION See Form	PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)					
PCT/FI2004/050176	24-11-2004	15-12-2003					
International Patent Classification (IPC) o	r national classification and IPC						
H01L23/60 // H05F3/02							
Applicant							
Nokia Corporation et al							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of 3 sheets, including this cover sheet.							
3. This report is also accompanied by ANNEXES, comprising:							
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which s	supersede earlier sheets, but which this Author	rity considers contain an amendment that goes					
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
U. [_] (sent to the Internation	nal Bureau only) a total of (indicate type and						
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications rel	lating to the following items:						
. Box No. I Basis of	the report						
Box No. II Priority							
Box No. III Non-esta	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VII Certain o	Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application							
Date of submission of the demand Date of completion of this report							
of the definition of the defining	Date of completion	or this report					
26-09-2005	07-11-2005	07-11-2005					
Name and mailing address of the IPEA/SE							
Patent- och registreringsverket	Patent- och registreringsverket						
Box 5055 S-102 42 STOCKHOLM Tomas Erlandsson /LR							
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Form PCT/IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/050176

Box	No. I	Basis of the report				
i.	With	regard to the language, this report is based on:				
	\boxtimes	the international application in the language in which it was filed				
a translation of the international application into which is the language of a translation furnished for the purposes of:						
		international search (Rules 12.3(a) and 23.1(b))				
		publication of the international application (Rule 12.4(a))				
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))				
2.	furnisi	regard to the elements of the international application, this report is based on (replacement sheets which have the first to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally five not annexed to this report):	been led"			
		the international application as originally filed/furnished				
	Ш	the description:				
		pages as originally filed/furnishe				
		pages* received by this Authority on	_			
		pages* received by this Authority on	_			
		the claims:				
		pages as originally filed/furnished	d			
		pages* as amended (together with any statement) under Article				
		pages* received by this Authority on	_			
		pages* received by this Authority on	-			
	Ш	the drawings:				
		pages as originally filed/furnished				
		pages* received by this Authority on	-			
	_	pages* received by this Authority on	_			
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not b made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (R 70.2(c)).	een tule			
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify): any table(s) related to the sequence listing (specify):				
* .	lf item	4 applies, some or all of those sheets may be marked "superseded."				

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/050176

Reasoned statement u citations and explana	inder Article tions support	35(2) with regard to novelty, inventive : ing such statement	step or industrial applicability;
μλ (<u>p.)</u>	Claims Claims	1-15	YES NO
tive step (IS)	Claims Claims	1-15	YES NO
rial applicability (IA)	Claims Claims	1-15	YES NO
t	ty (N)	ty (N) Claims Claims tive step (IS) Claims Claims Claims Claims	ty (N) Claims 1-15 Claims tive step (IS) Claims 1-15 Claims rial applicability (IA) Claims 1-15

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 4796084 A D2: US 2001033478 A1 D3: JP 2001196638 A

The cited documents represent the general state of the art.

The invention defined in claims 1-15 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed semiconductor component. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-15 is novel and is considered to involve an inventive step. The invention is industrially applicable.

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